

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P555420

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-82-96-EDD-90**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P555420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-3HI-30-UNV-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

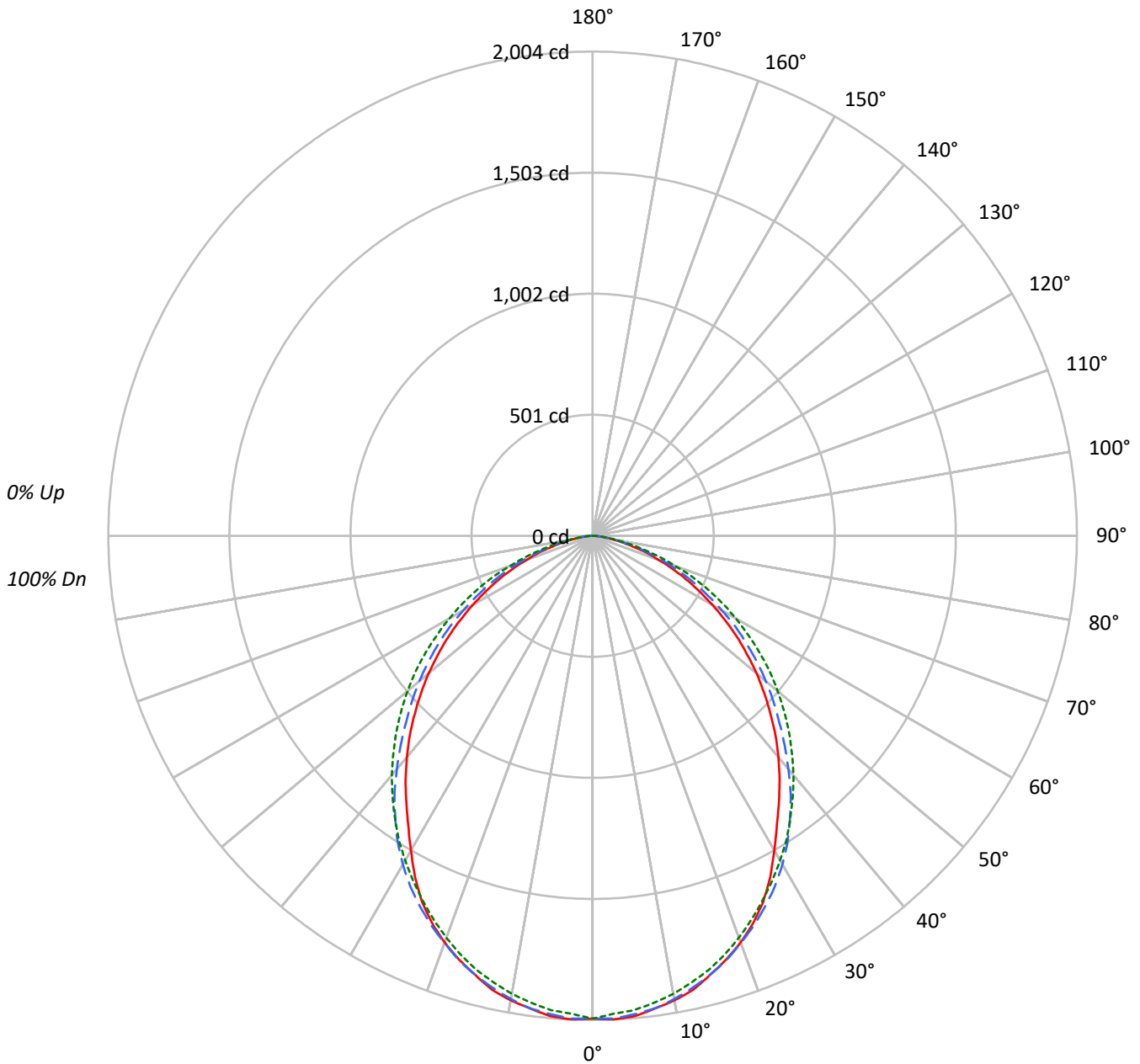
Lumens per Lamp: N/A
Luminaire Lumens: 4621.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10756	10756	10756
5°	10785	10739	10647
10°	10670	10640	10519
15°	10481	10481	10361
20°	10259	10272	10140
25°	9921	10044	9884
30°	9342	9762	9642
35°	8828	9357	9372
40°	8398	8852	9083
45°	7918	8315	8742
50°	7412	7836	8369
55°	6837	7291	7918
60°	6157	6652	7364
65°	5436	5915	6697
70°	4530	5039	5690
75°	3560	4024	4454
80°	2545	2833	3140
85°	1661	1661	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	4.1
10°-20°	528.6	11.4
20°-30°	772.5	16.7
30°-40°	876.8	19.0
40°-50°	846.4	18.3
50°-60°	698.3	15.1
60°-70°	465.0	10.1
70°-80°	208.1	4.5
80°-90°	37.2	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1489.2	32.2
0°-40°	2366.0	51.2
0°-60°	3910.7	84.6
0°-90°	4621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1998	1998	1998	1998	1998	
5°	1996	1995	1988	1977	1971	189
15°	1881	1886	1881	1873	1860	530
25°	1671	1684	1691	1679	1664	765
35°	1344	1362	1424	1432	1426	842
45°	1040	1058	1092	1142	1149	803
55°	729	741	777	820	844	650
65°	427	438	464	498	526	423
75°	171	180	194	203	214	187
85°	27	27	27	25	25	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1998.5	1998.5	1998.5	1998.5	1998.5
2.5°	2003.8	2004.6	2000.0	1987.7	1980.0
5°	1996.2	1995.4	1987.7	1977.0	1970.8
7.5°	1973.9	1975.4	1973.1	1957.8	1949.3
10°	1952.4	1953.2	1947.0	1934.7	1924.8
12.5°	1924.8	1924.0	1915.5	1909.4	1893.3
15°	1881.0	1885.6	1881.0	1872.6	1859.5
17.5°	1838.8	1838.8	1841.8	1827.3	1817.3
20°	1791.2	1793.5	1793.5	1782.0	1770.4
22.5°	1735.9	1742.8	1745.1	1732.8	1719.0
25°	1670.6	1683.7	1691.4	1679.1	1664.5
27.5°	1591.6	1611.5	1634.5	1625.3	1609.2
30°	1503.3	1532.4	1570.8	1563.1	1551.6
32.5°	1419.6	1448.8	1501.7	1498.7	1492.5
35°	1343.6	1362.0	1424.2	1431.9	1426.5
37.5°	1271.4	1288.3	1346.6	1364.3	1359.7
40°	1195.4	1213.8	1259.9	1291.4	1292.9
42.5°	1120.2	1137.8	1175.4	1220.7	1220.7
45°	1040.3	1058.0	1092.5	1142.4	1148.6
47.5°	962.0	980.4	1014.2	1064.1	1074.1
50°	885.2	902.1	935.9	984.3	999.6
52.5°	805.4	823.8	856.8	901.3	923.6
55°	728.6	740.9	777.0	820.0	843.8
57.5°	648.8	660.3	701.0	737.8	762.4
60°	572.0	586.6	618.0	655.7	684.1
62.5°	498.3	513.6	540.5	573.5	605.8
65°	426.9	438.4	464.5	497.5	525.9
67.5°	357.8	367.8	393.9	416.9	446.8
70°	287.9	301.0	320.2	342.4	361.6
72.5°	231.9	237.2	253.4	269.5	289.4
75°	171.2	180.4	193.5	202.7	214.2
77.5°	122.8	128.2	135.9	143.6	154.3
80°	82.1	84.5	91.4	92.9	101.3
82.5°	49.9	51.4	53.0	53.7	56.8
85°	26.9	26.9	26.9	25.3	25.3
87.5°	15.4	15.4	13.1	10.7	7.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)